Fig.1A

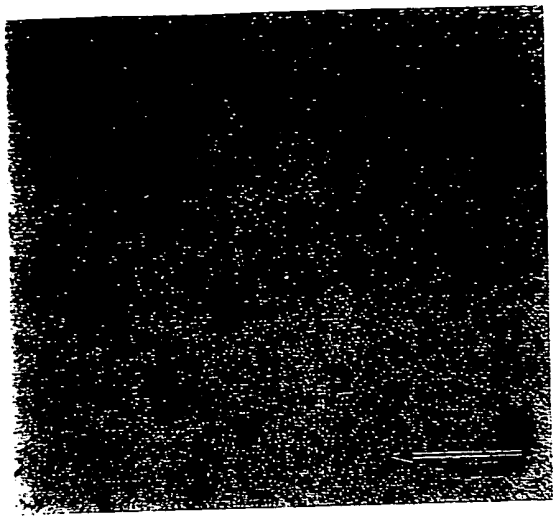


Fig.1B

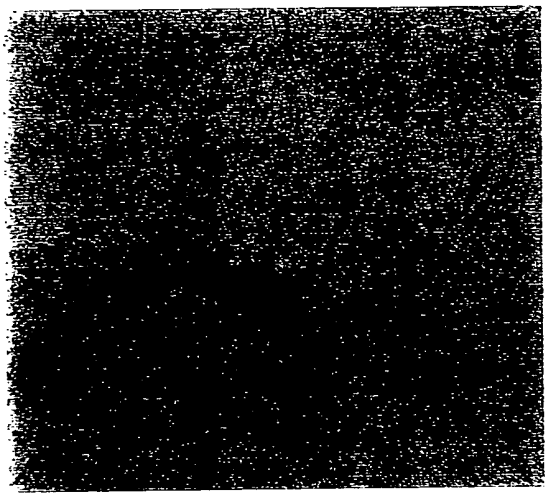


Fig.1C

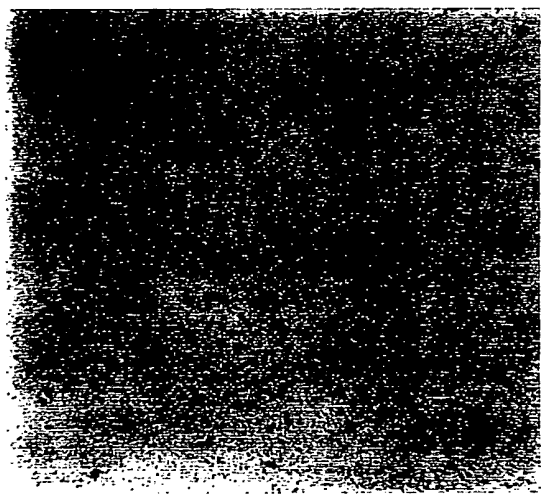


Fig.2A

Fig.2B

Fig.3A

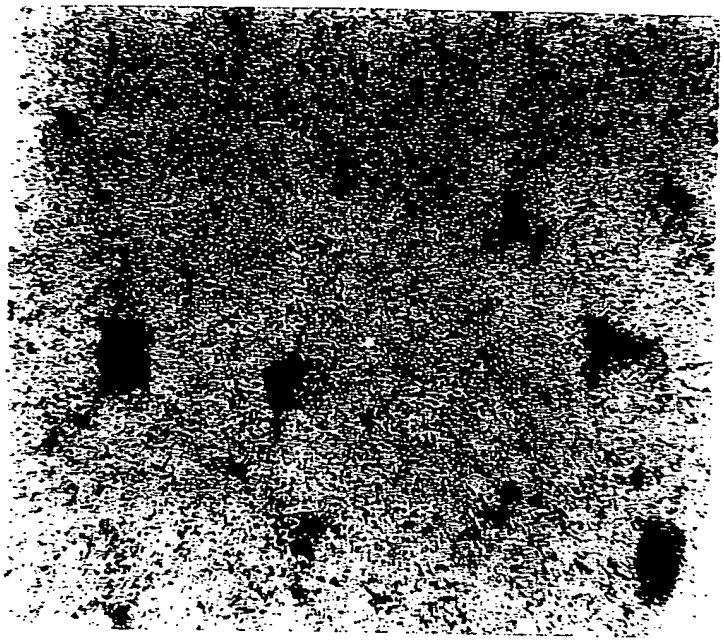


Fig.3B

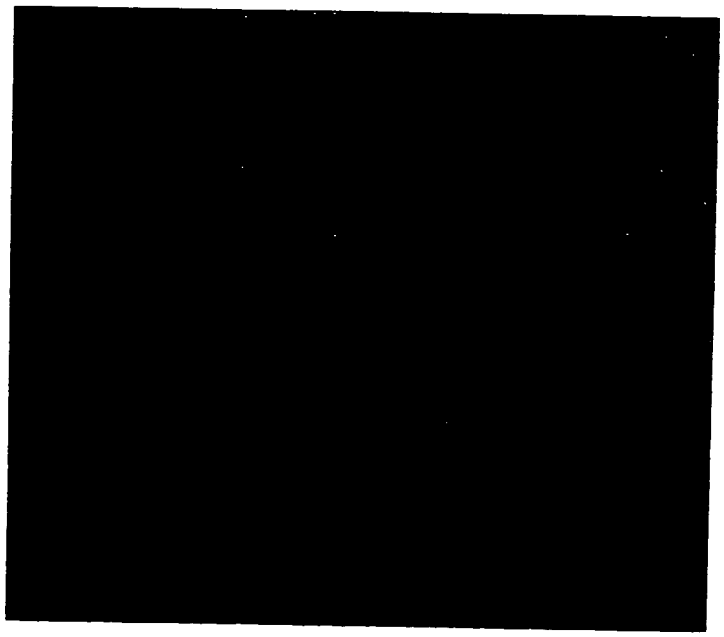


Fig. 4

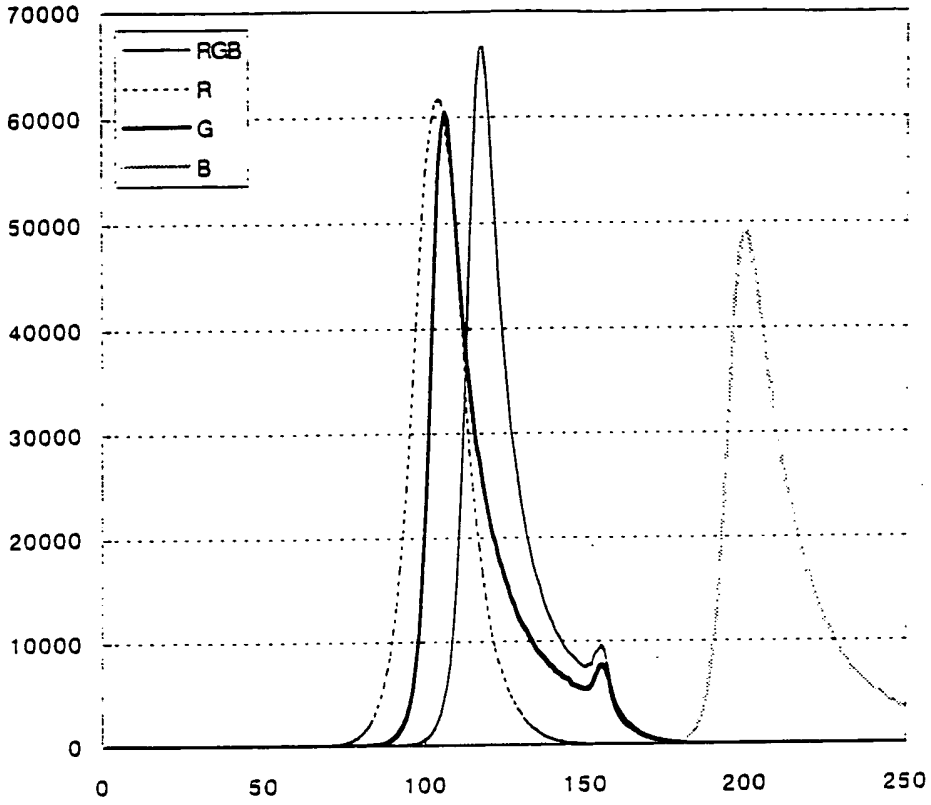

70000
60000
50000
40000
30000
20000
10000
0
0
50
100
150
200
250
RGB
R
G
B

Fig.5A

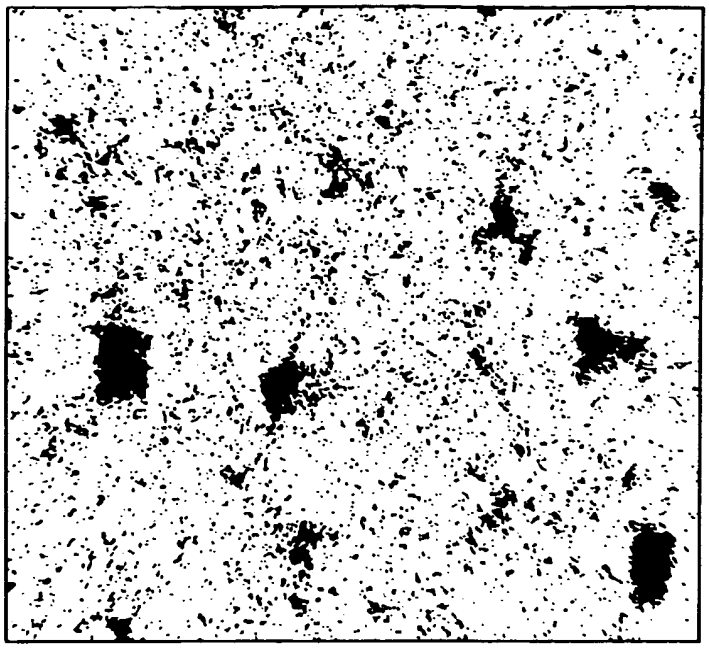


Fig.5B

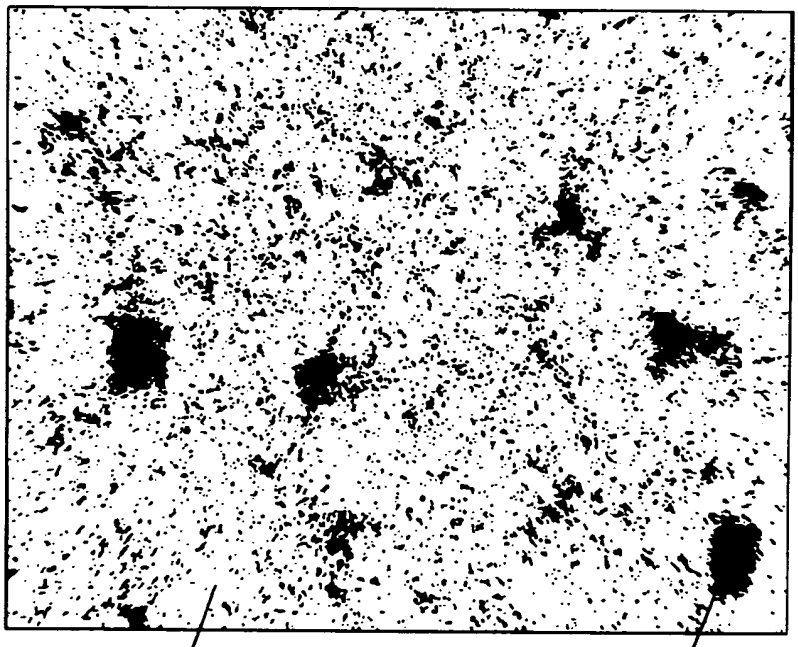


Fig. 6A

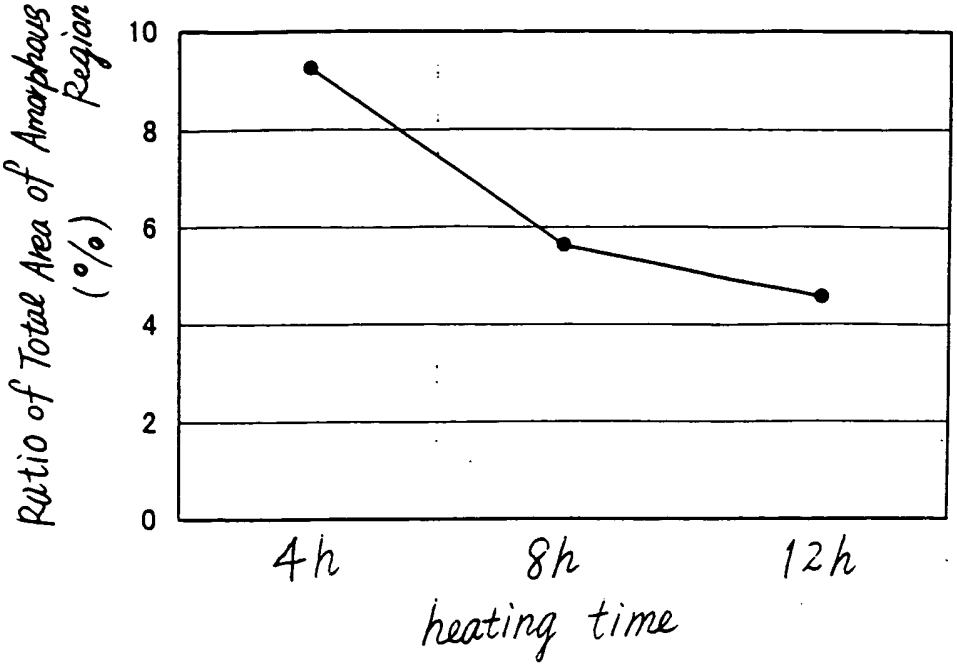

Ratio of Total Area of Amorphous Region (%)
10
8
6
4
2
0
4h
8h
12h
heating time

Fig. 6B

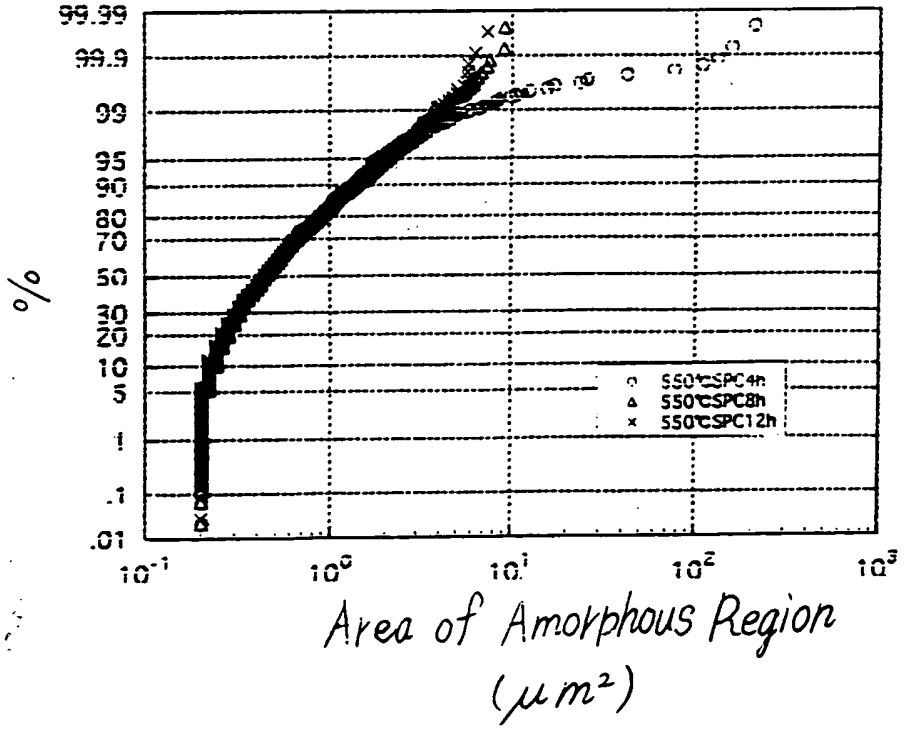

%
99.99
99.9
99
95
90
80
70
50
30
20
10
5
1
.1
.01
10^{-1}
10^{0}
10^{1}
10^{2}
10^{3}
550℃SPC4h
550℃SPC8h
550℃SPC12h
Area of Amorphous Region
(μm^2)

Fig. 7A

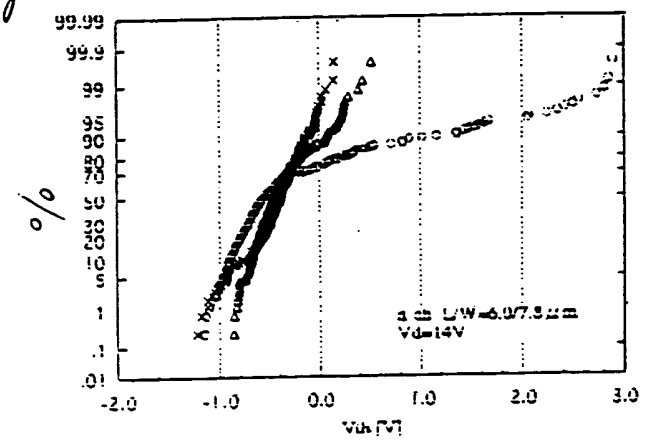


Fig. 7B

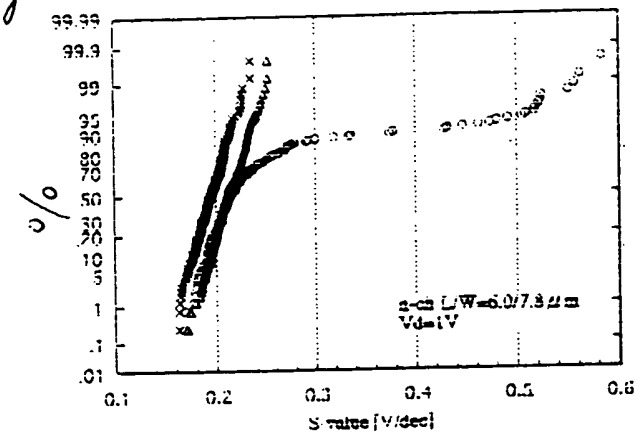


Fig. 7C

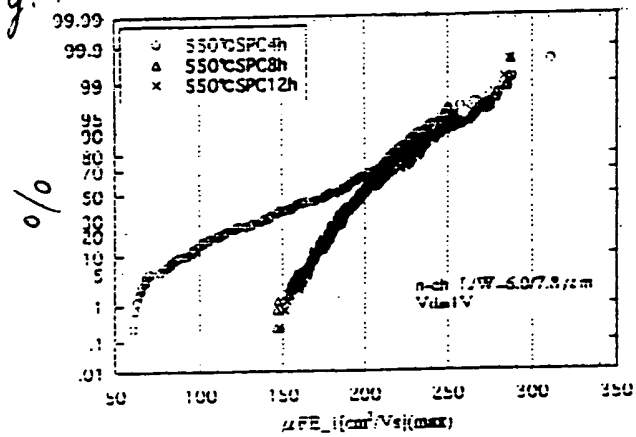


Fig.8A

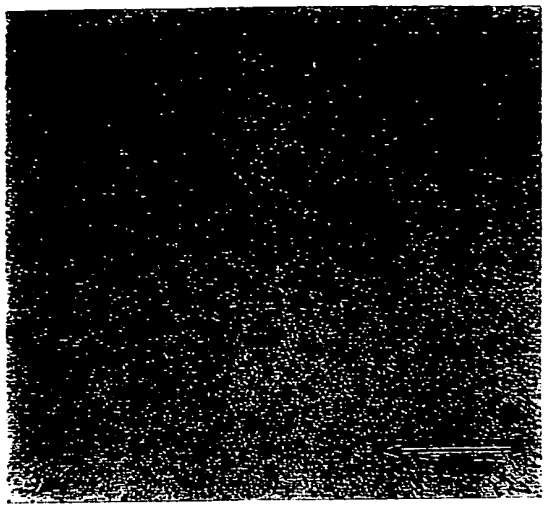


Fig.8B

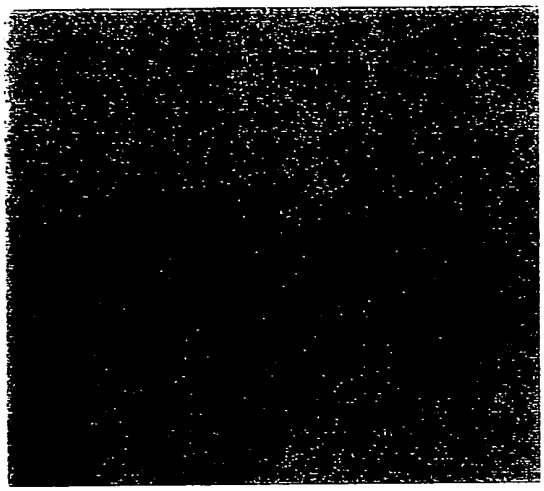


Fig.8C

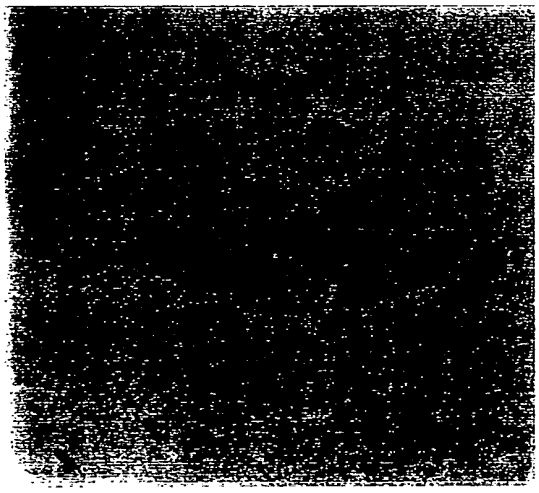


Fig. 9A

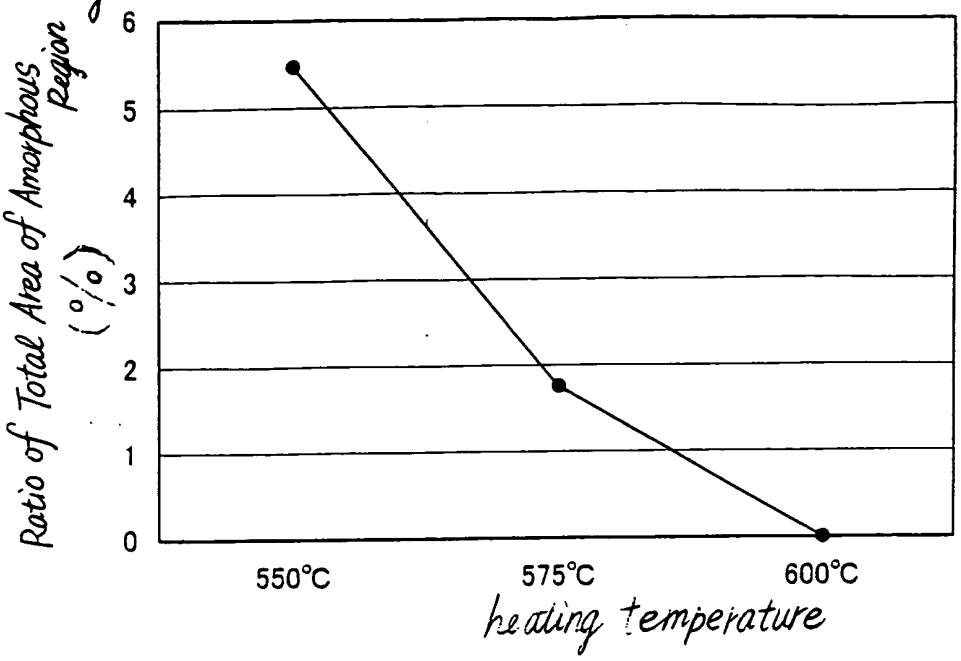

Ratio of Total Area of Amorphous Region (%)
6
5
4
3
2
1
0
550°C
575°C
600°C
heating temperature

Fig. 9B

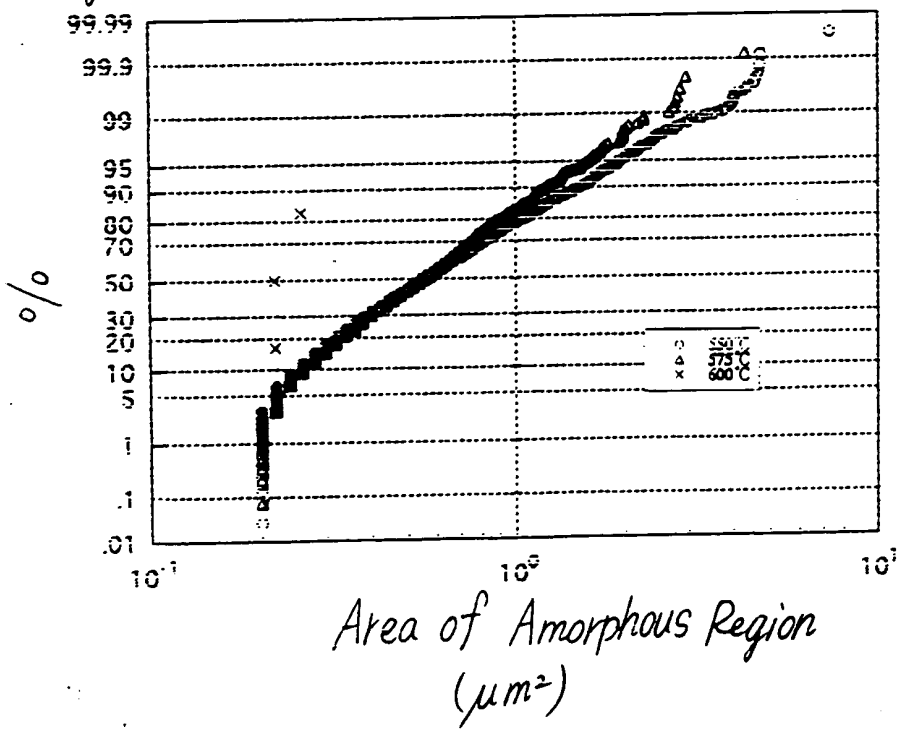

%
99.99
99.9
99
95
90
80
70
50
30
20
10
5
1
.1
.01
Area of Amorphous Region (μm²)

Fig.10A

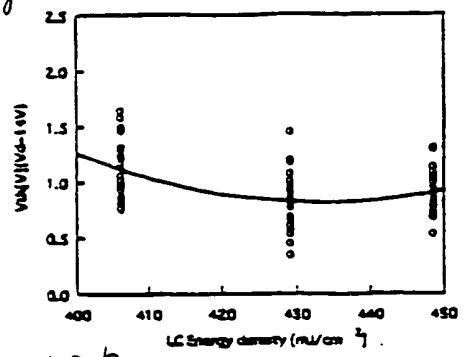


Fig.10E

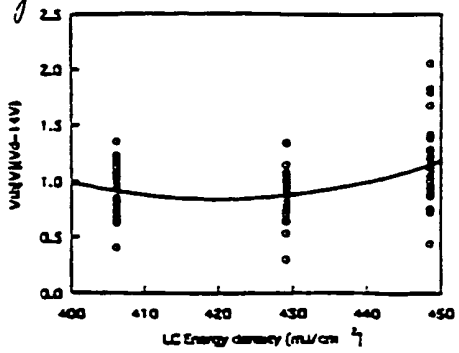


Fig.10B

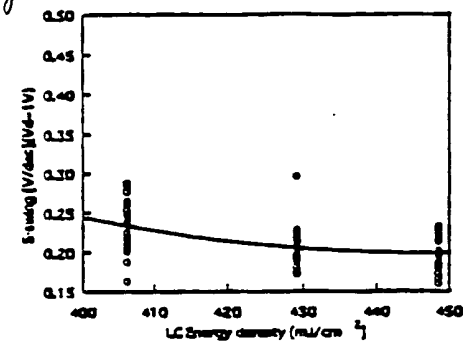


Fig.10F

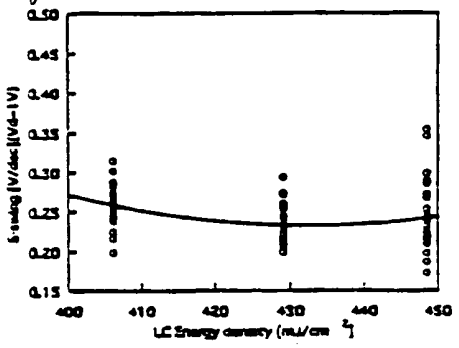


Fig.10C

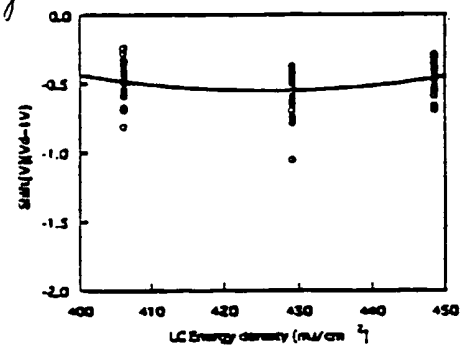


Fig.10G

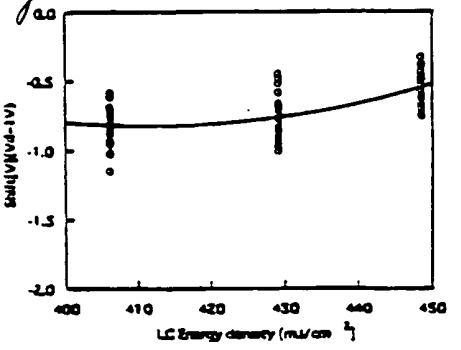


Fig.10D

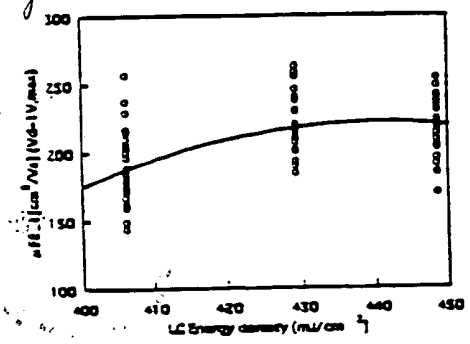


Fig.10H

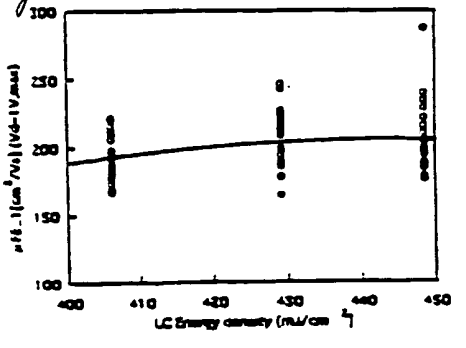


Fig. 11A

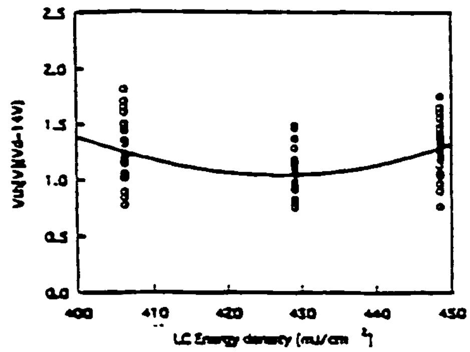


Fig. 11B

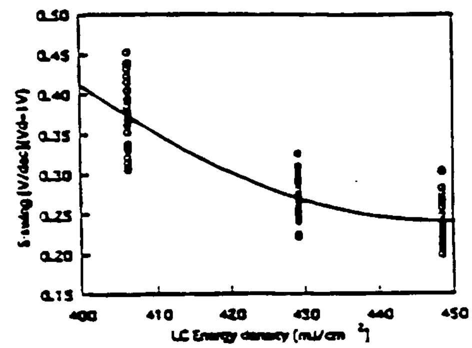


Fig. 11C

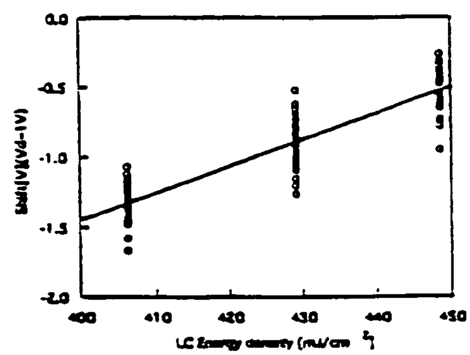


Fig. 11D

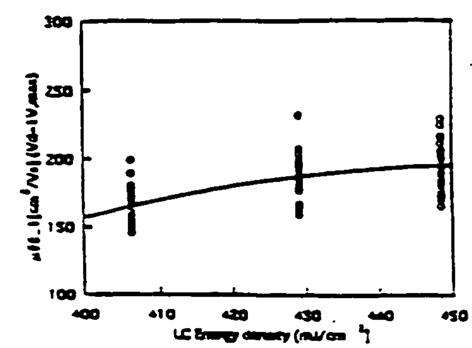


Fig. 12

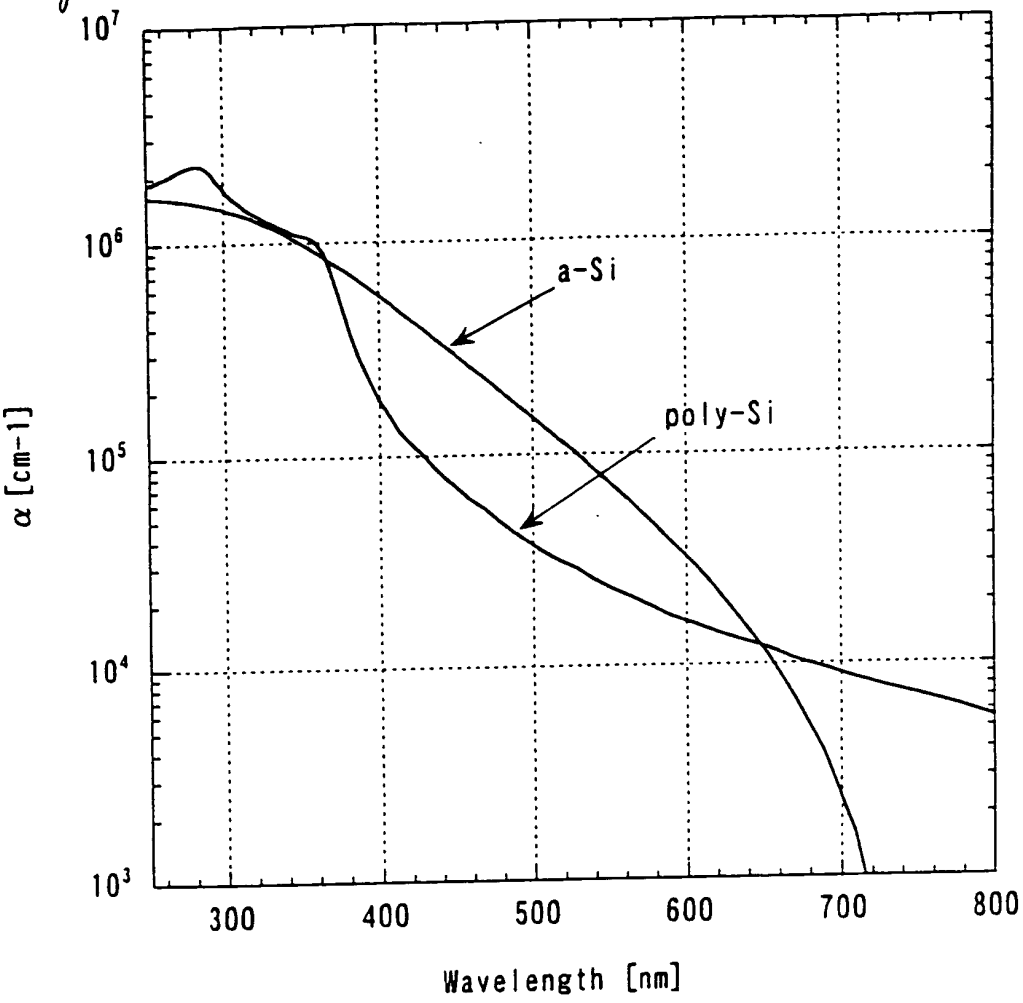

10^7
10^6
10^5
10^4
10^3
α [cm-1]
a-Si
poly-Si
300
400
500
600
700
800
Wavelength [nm]

Fig.13

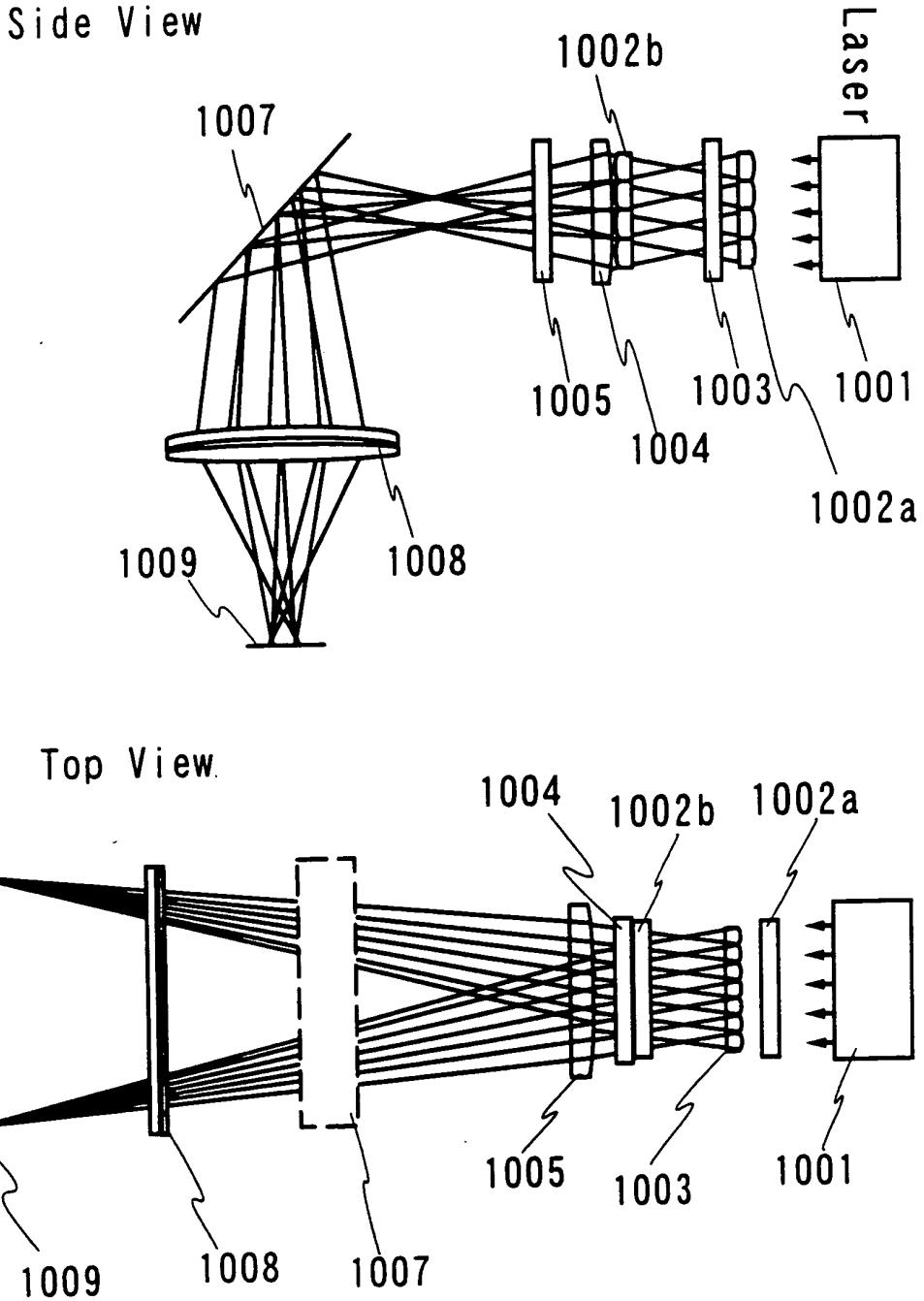

Side View
1002b
Laser
1007
1005
1003
1001
1004
1002a
1009
1008
Top View
1004
1002b
1002a
1005
1003
1001
1009
1008
1007

Fig.14

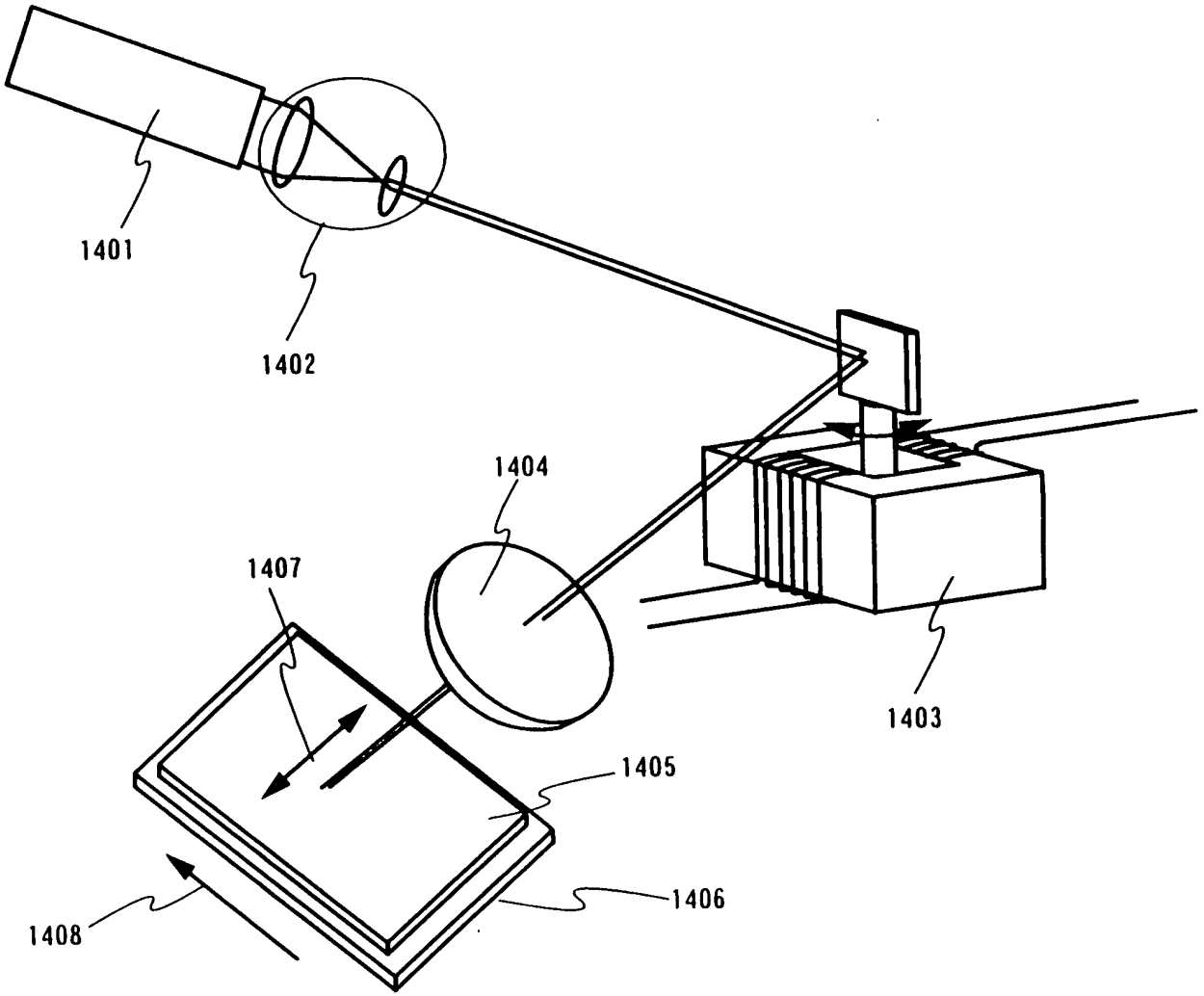


Fig.15A

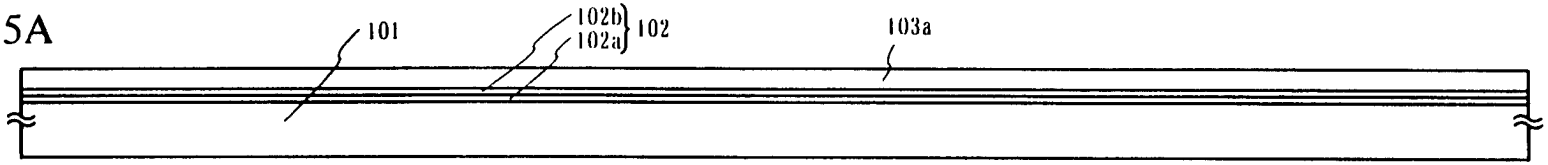


Fig.15B

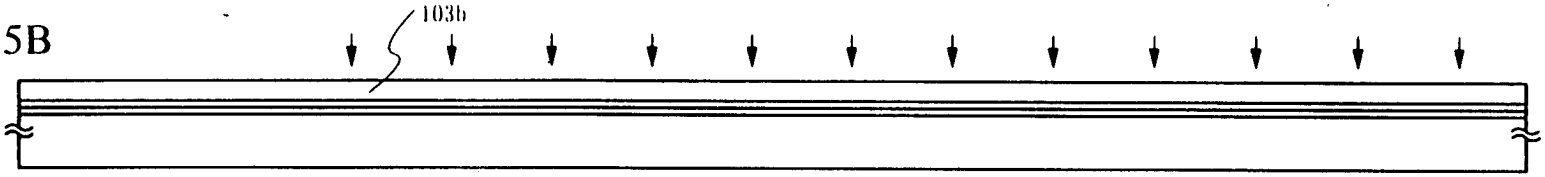


Fig.15C

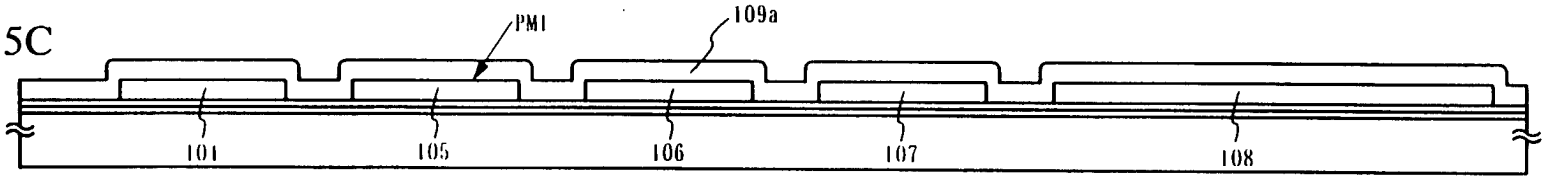


Fig.15D

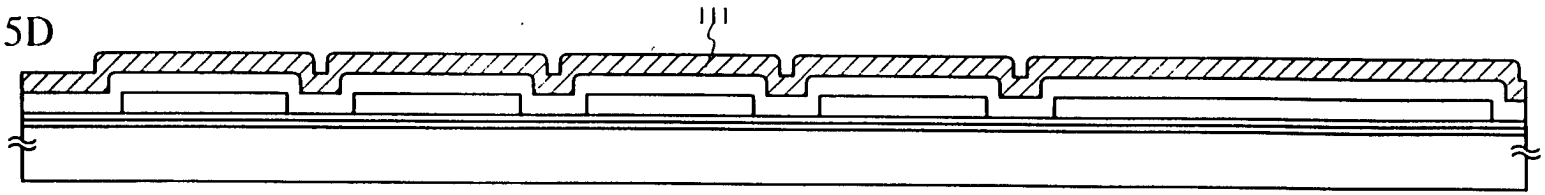


Fig.16A

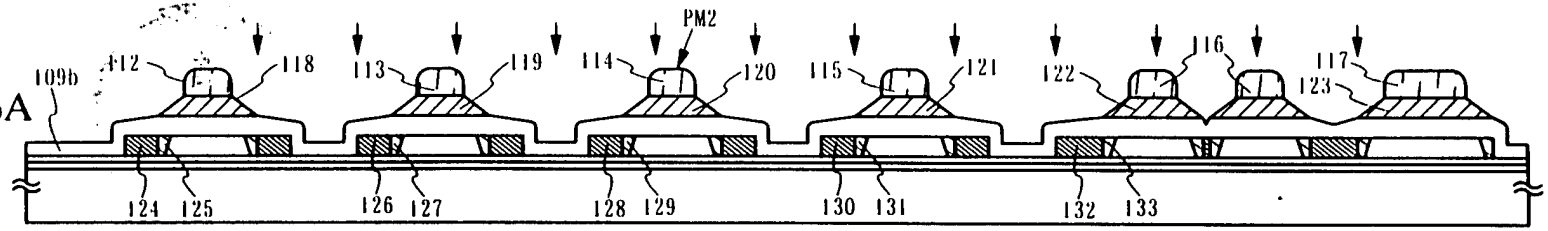


Fig.16B

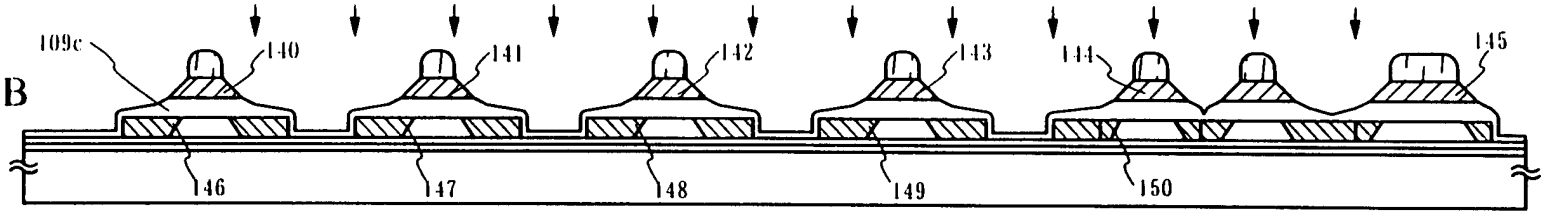


Fig.16C

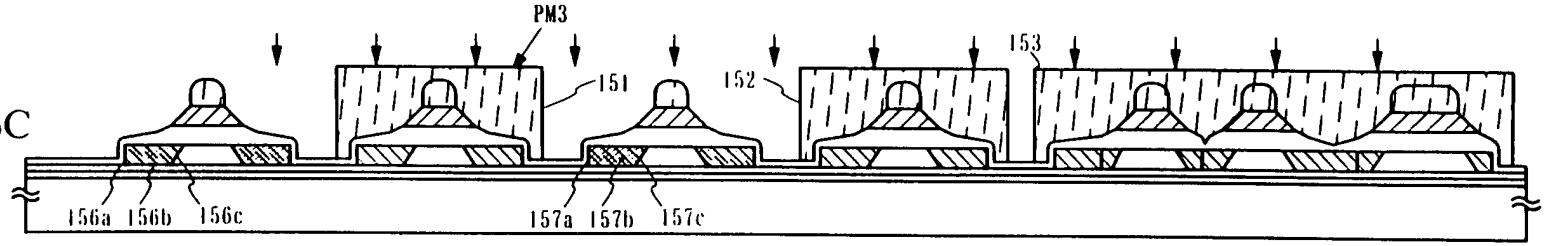


Fig.17A

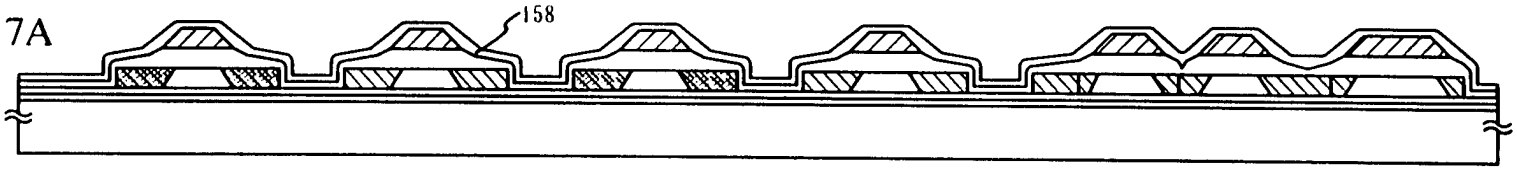


Fig.17B

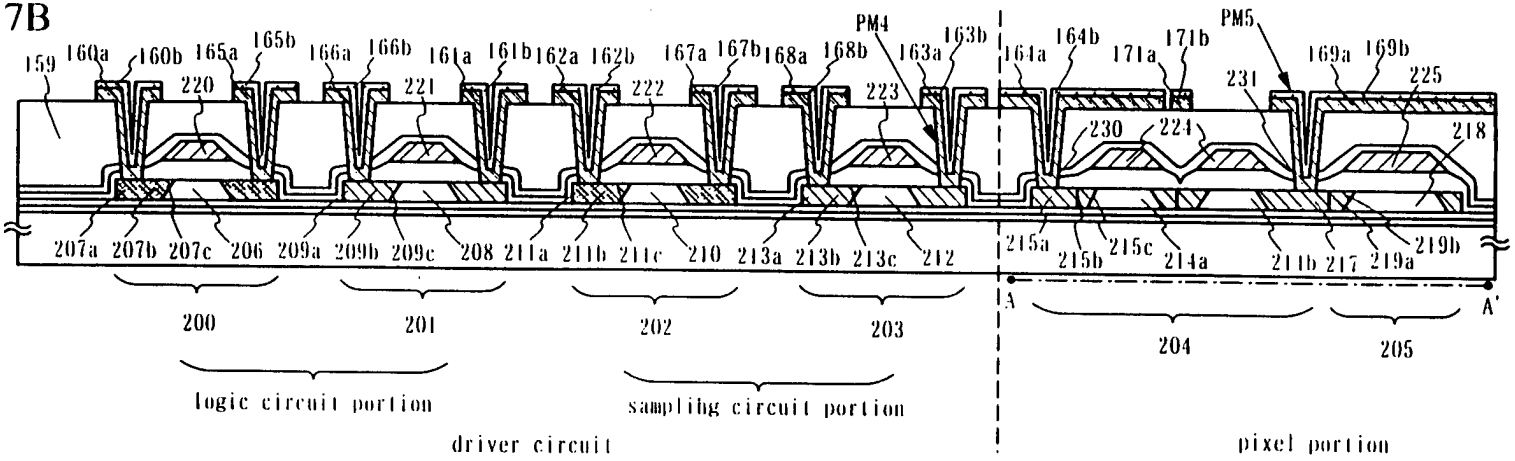


Fig.18A

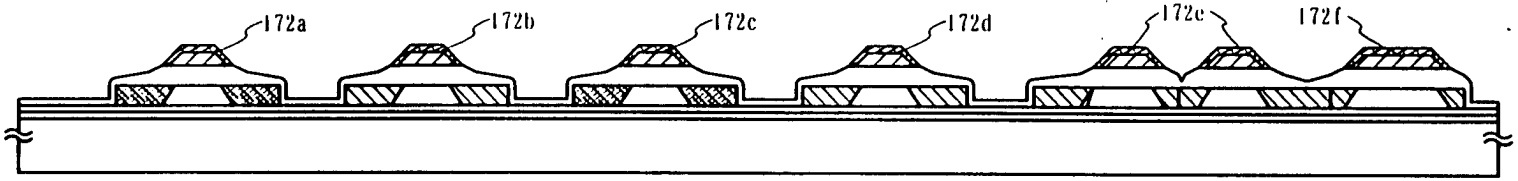


Fig.18B

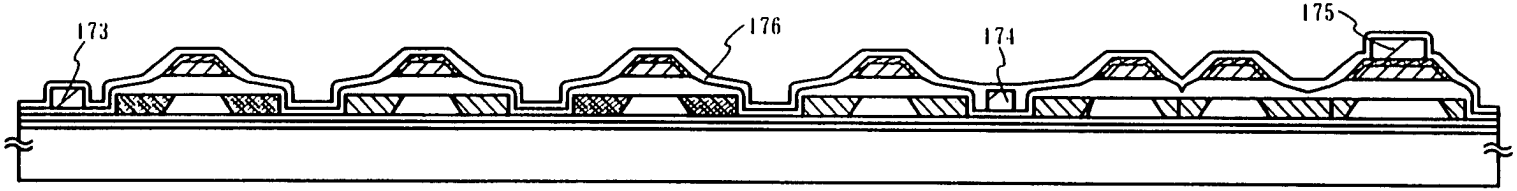
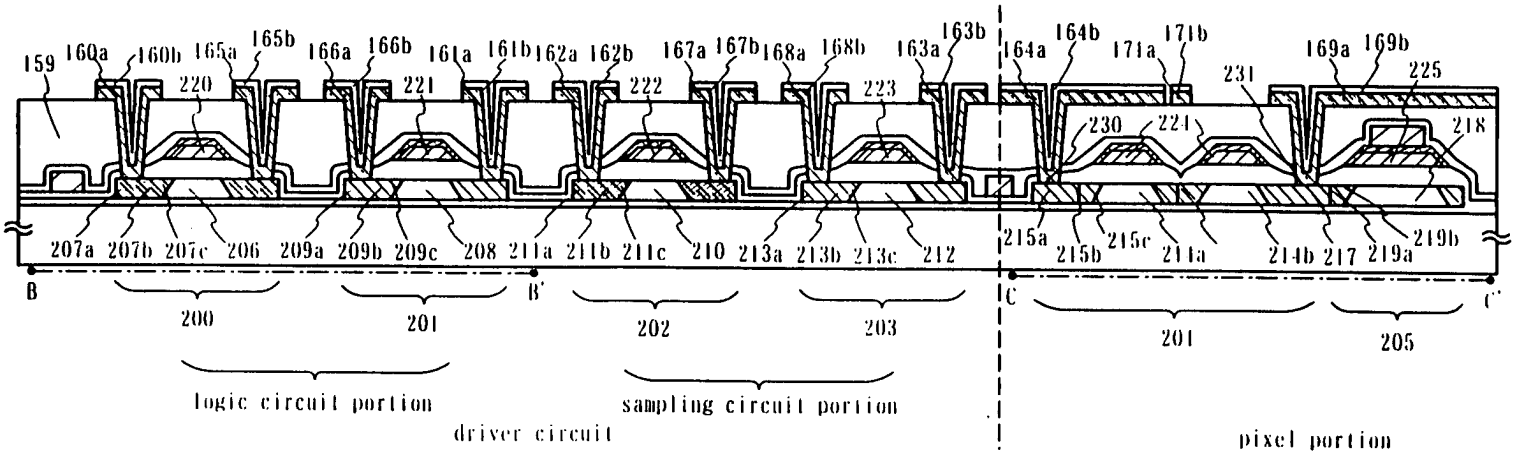


Fig.18C



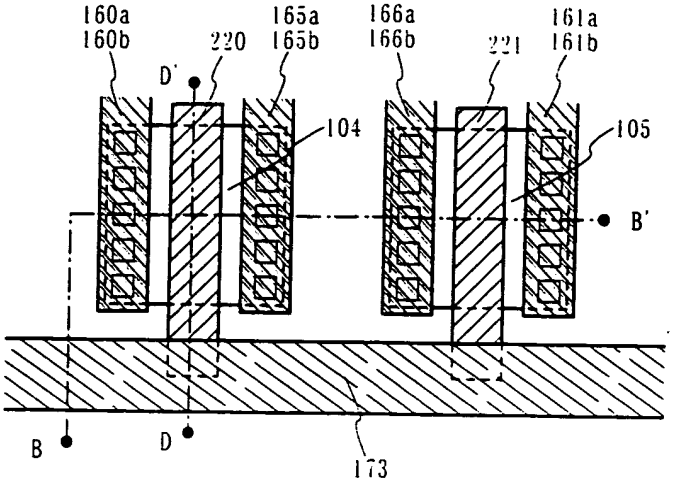


Fig.19A

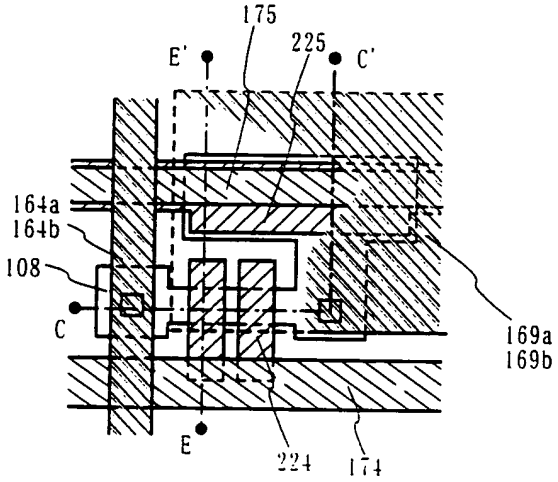


Fig.19B

Fig.20A

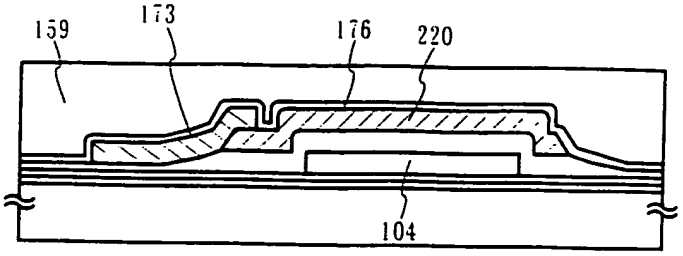


Fig.20B

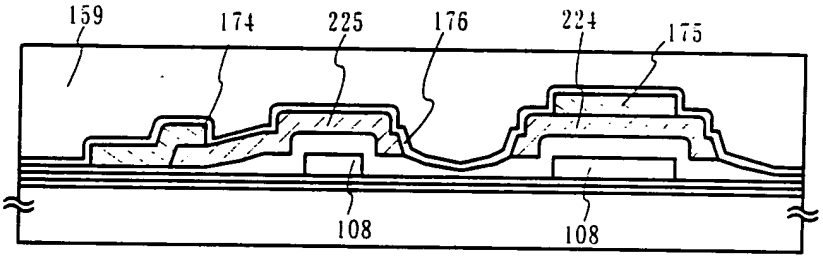


Fig.21A

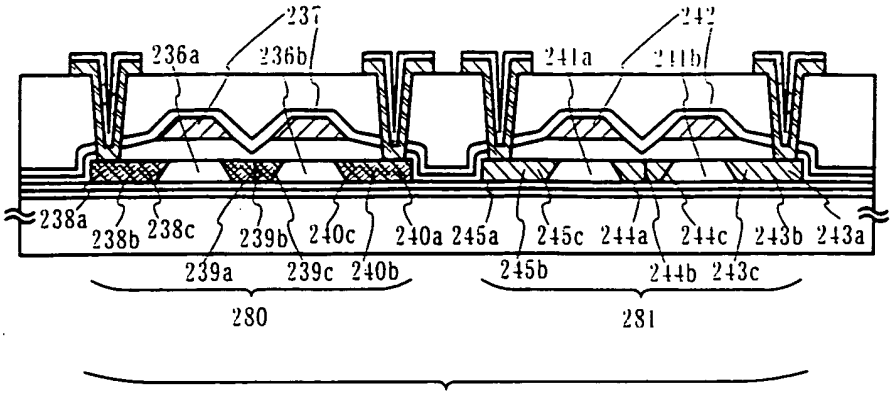
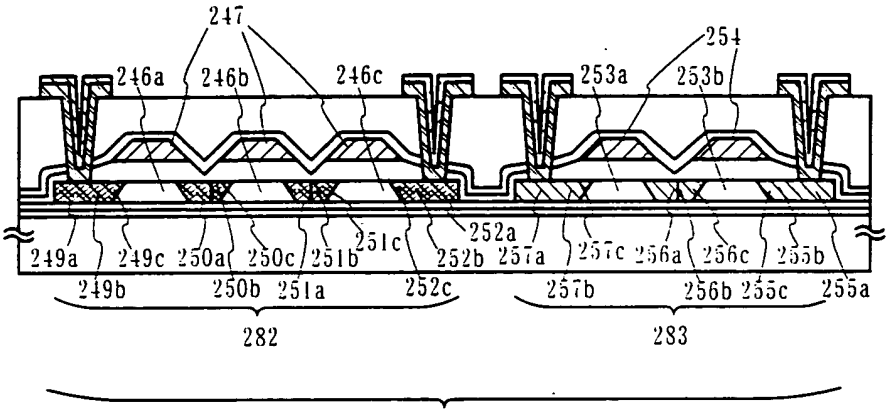


Fig.21B



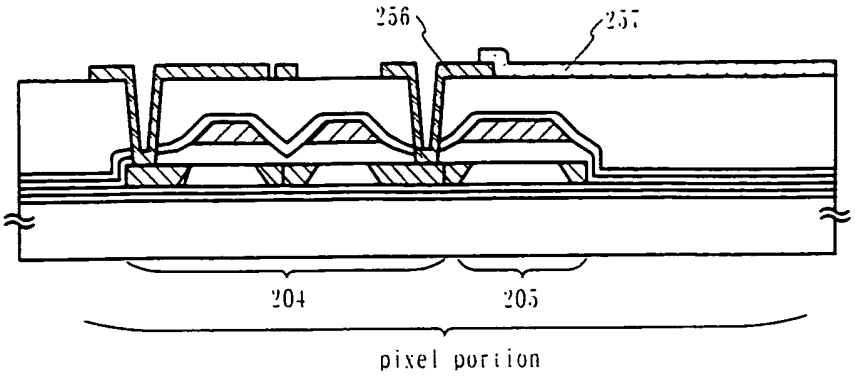


Fig.22A

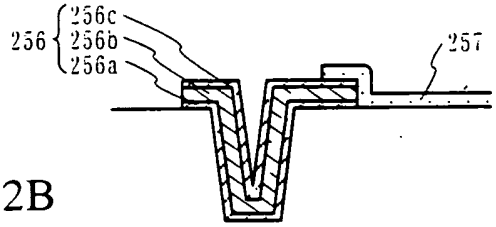


Fig.22B

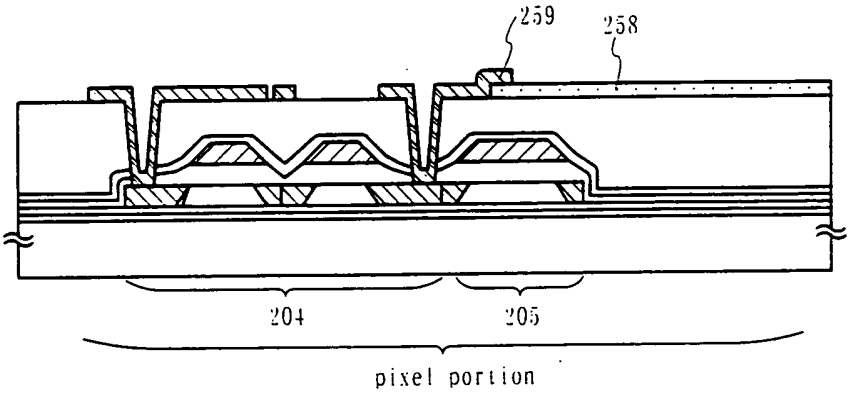


Fig.22C

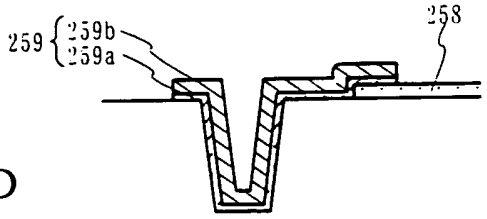


Fig.22D

Fig.23

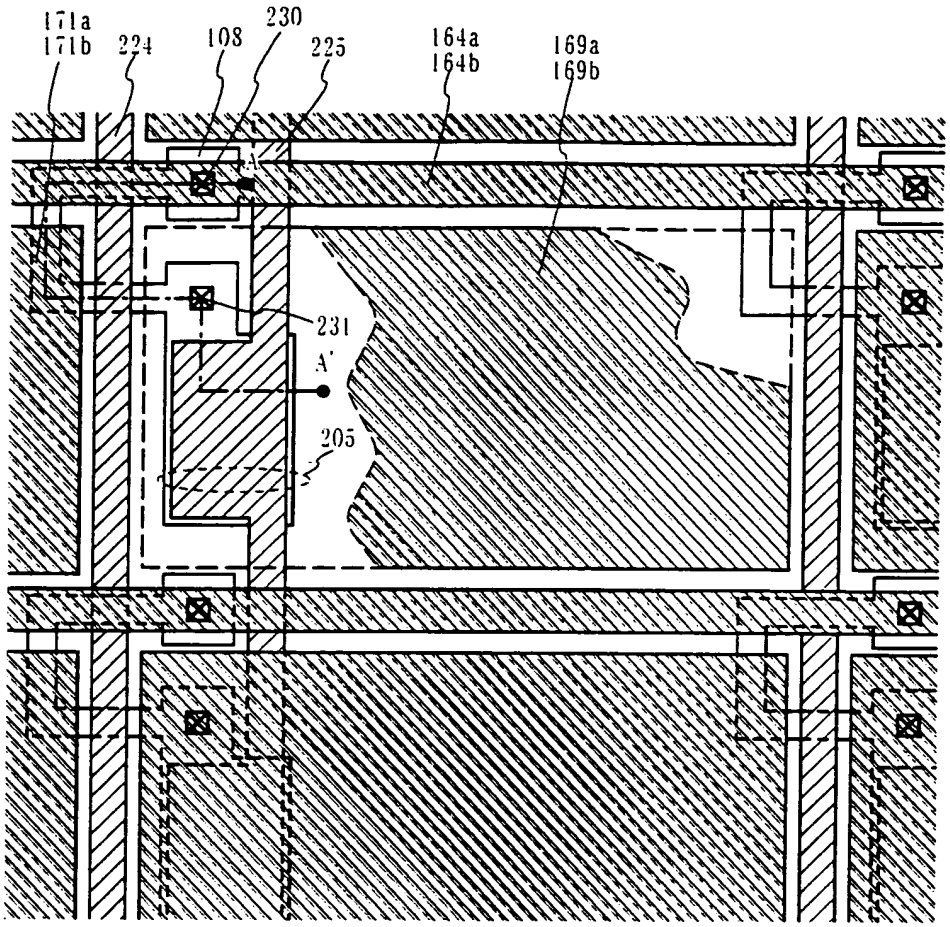


Fig.24A

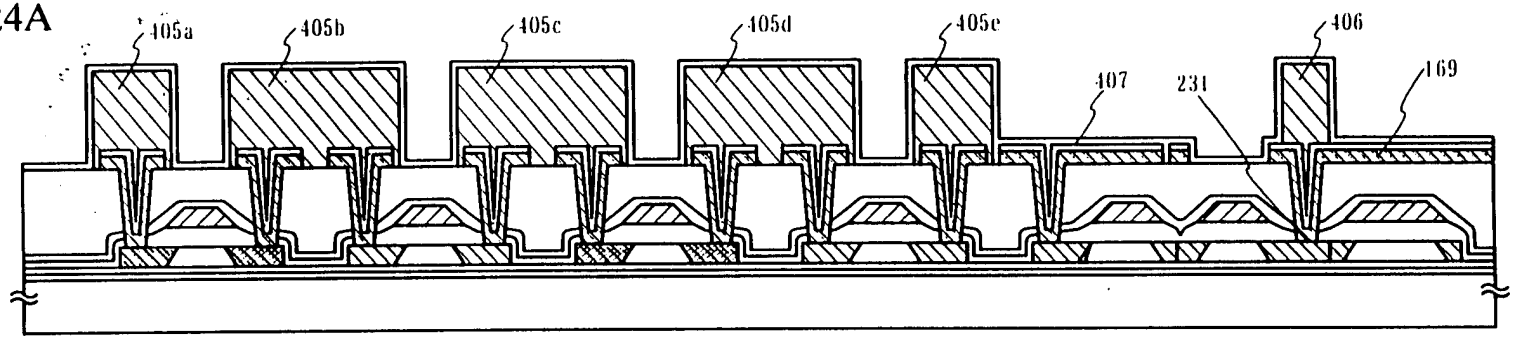
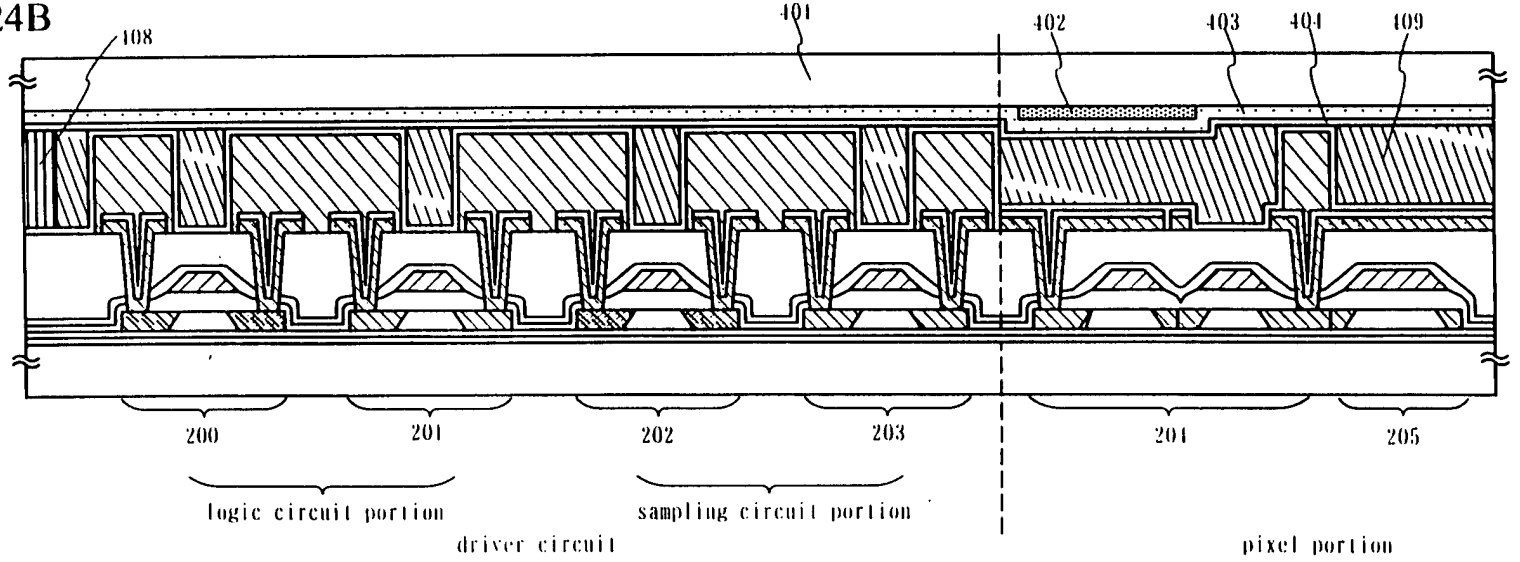


Fig.24B



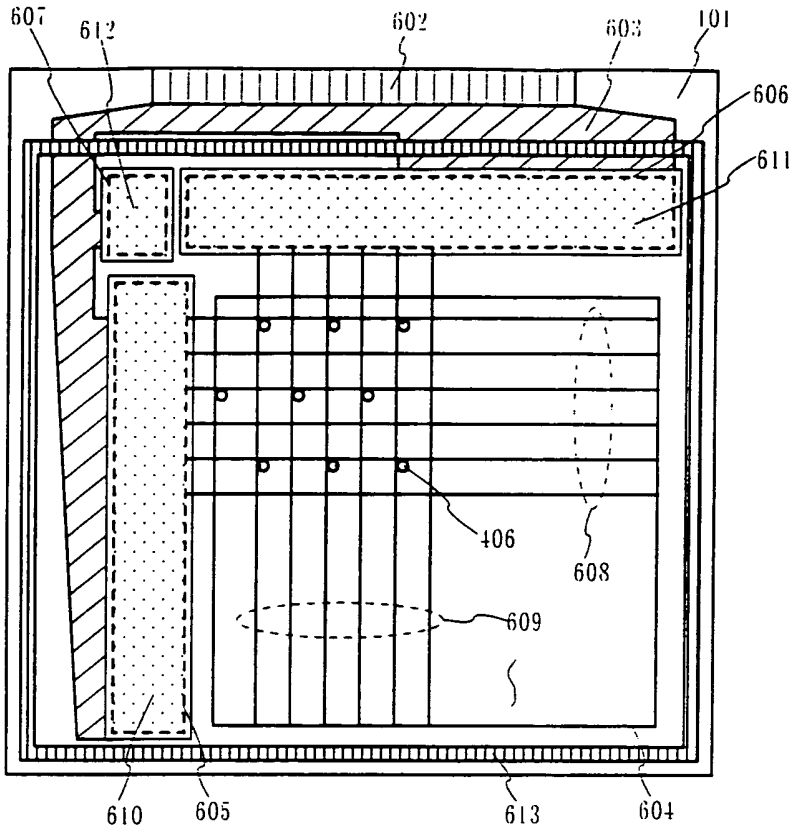


Fig.25

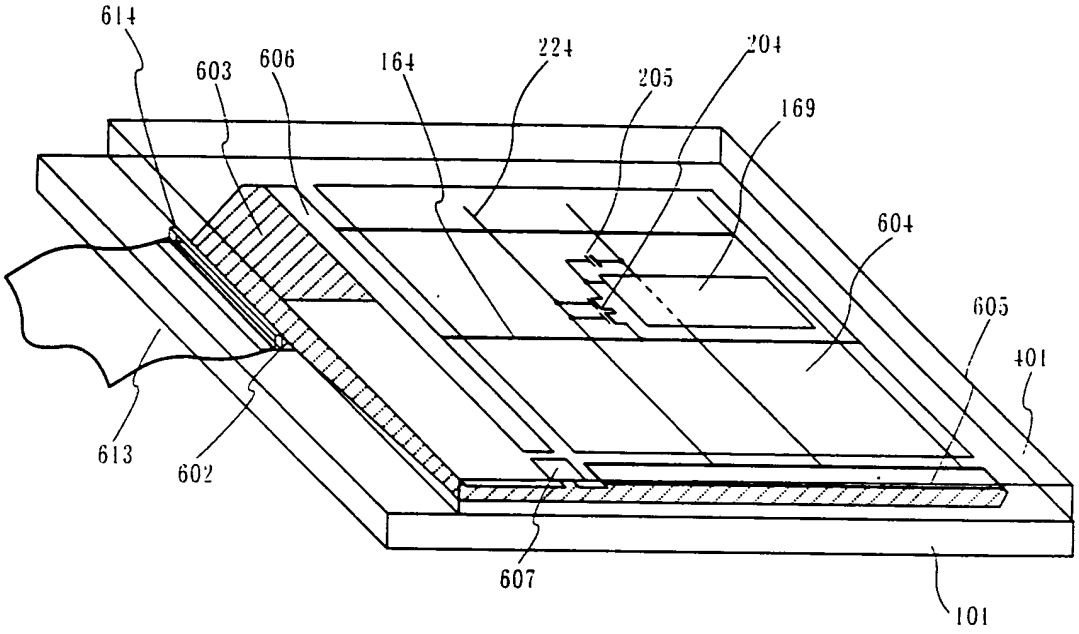


Fig.26

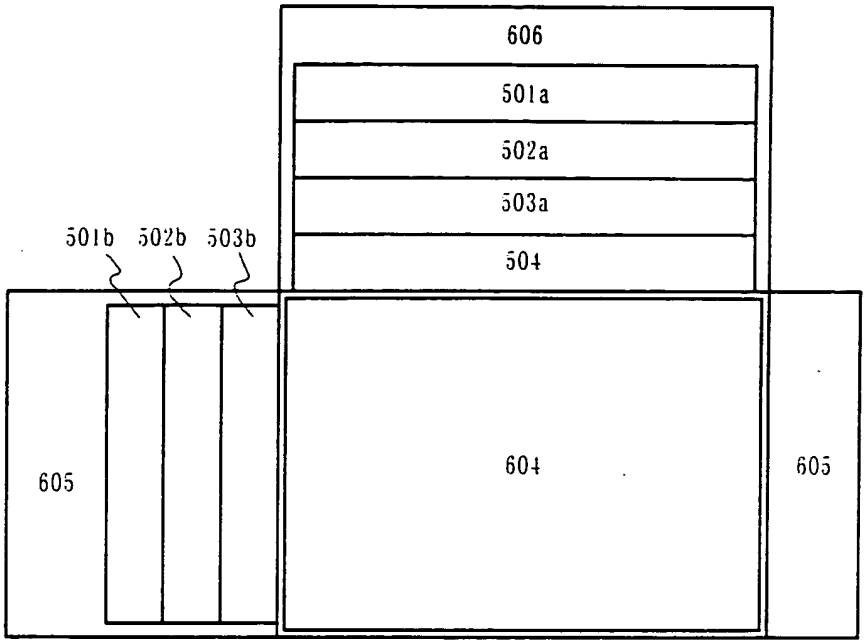


Fig.27

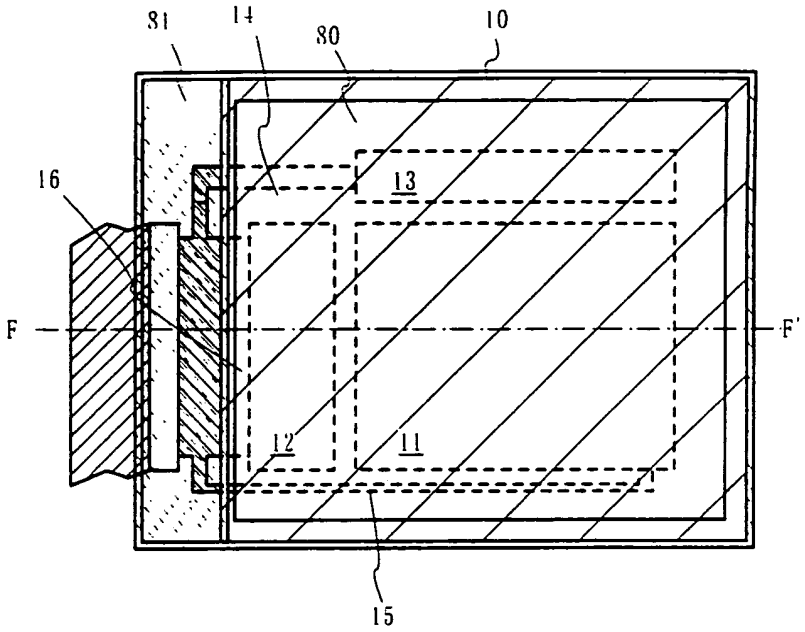


Fig.28A

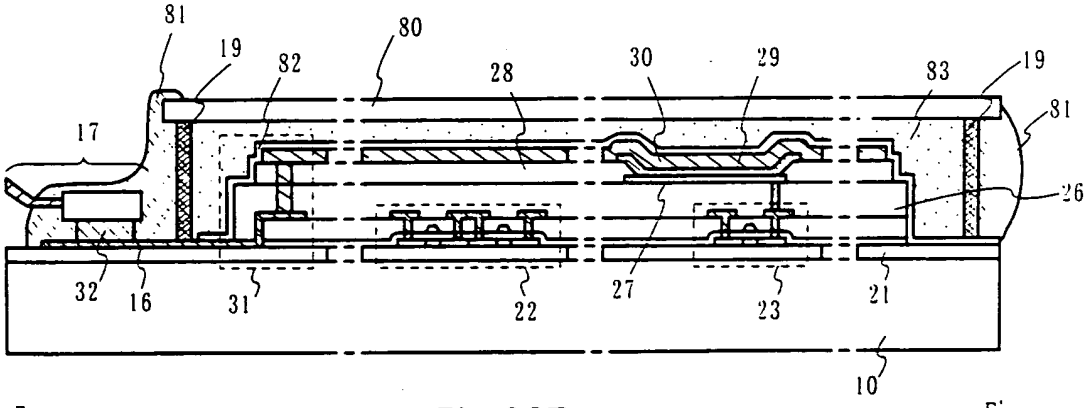


Fig.28B

Fig.29A

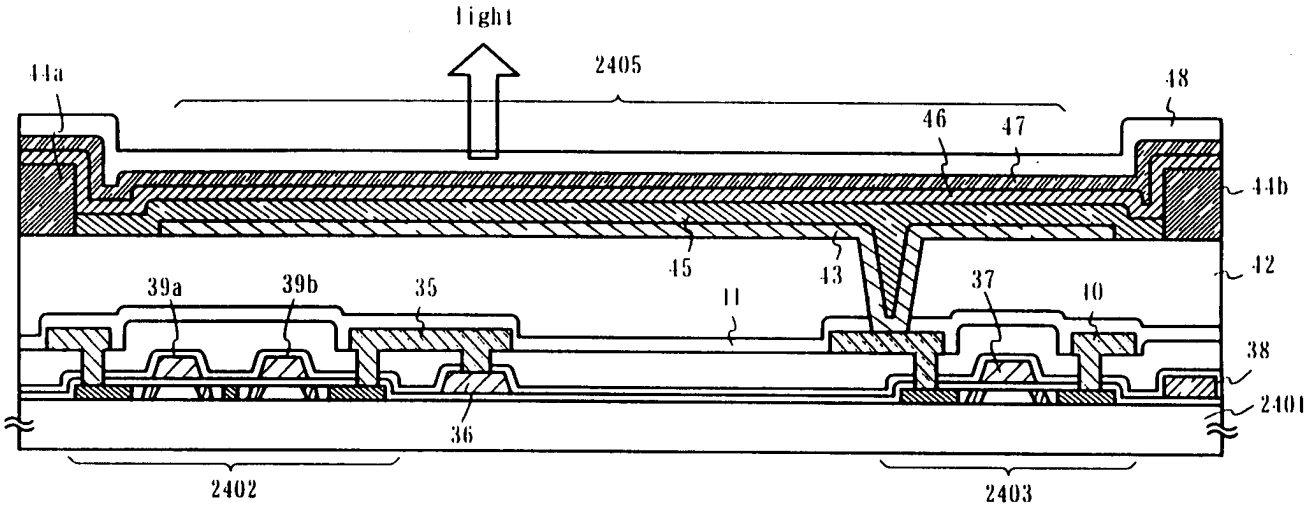


Fig.29B

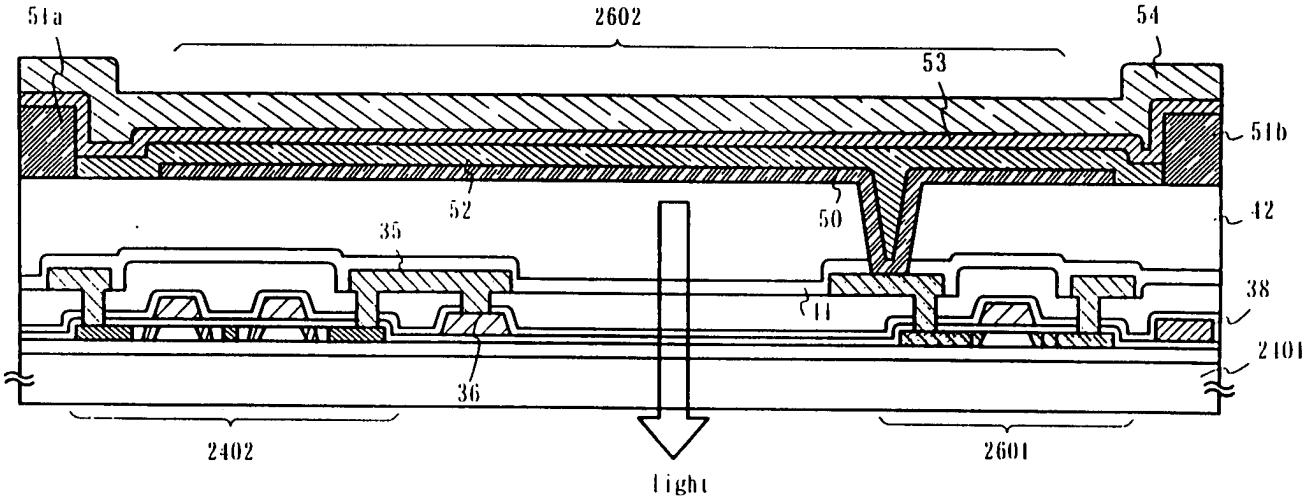


Fig.30A

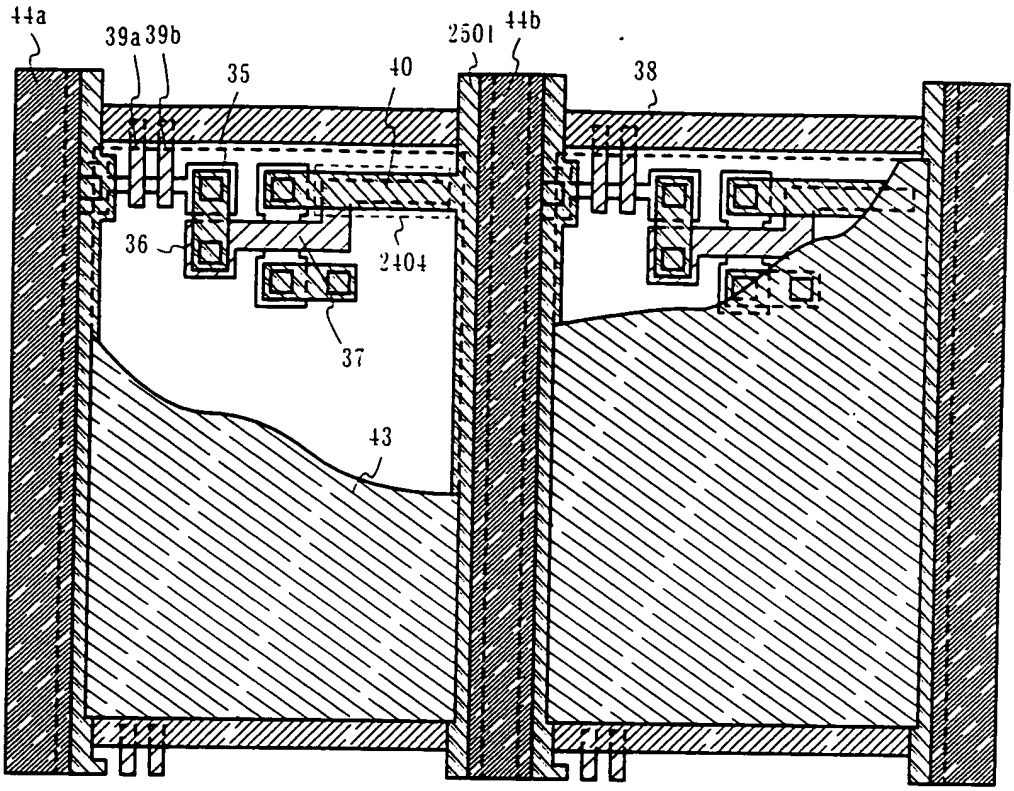
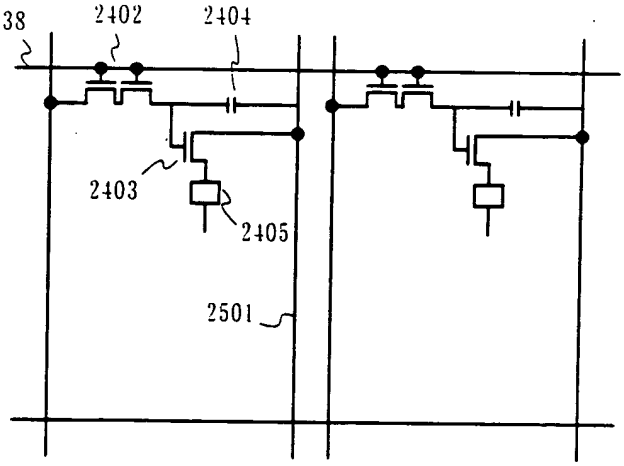


Fig.30B



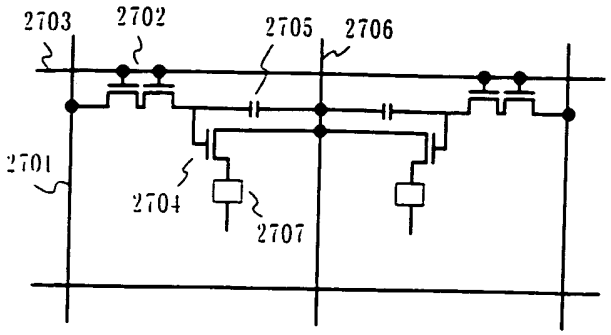


Fig.31A

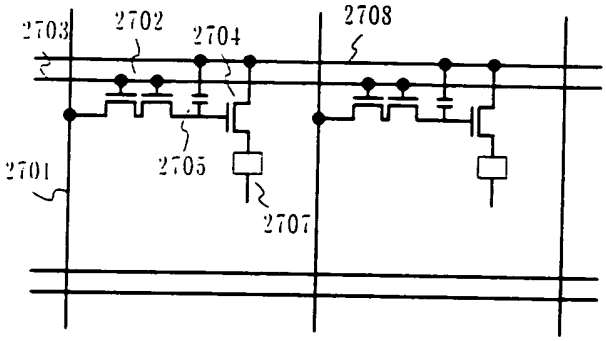


Fig.31B

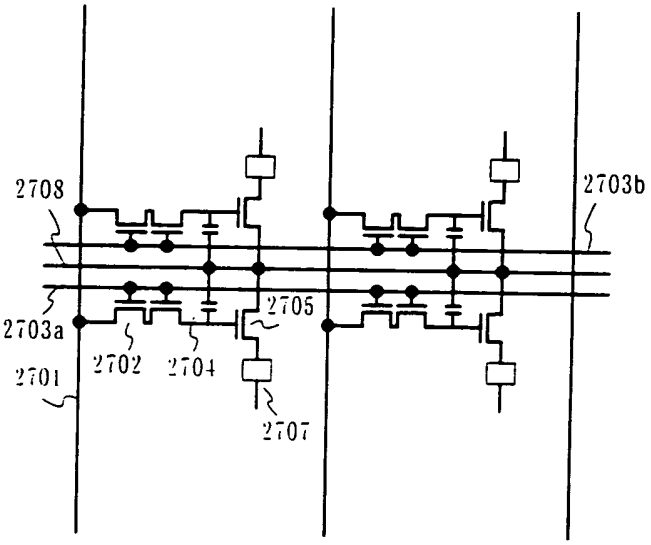


Fig.31C

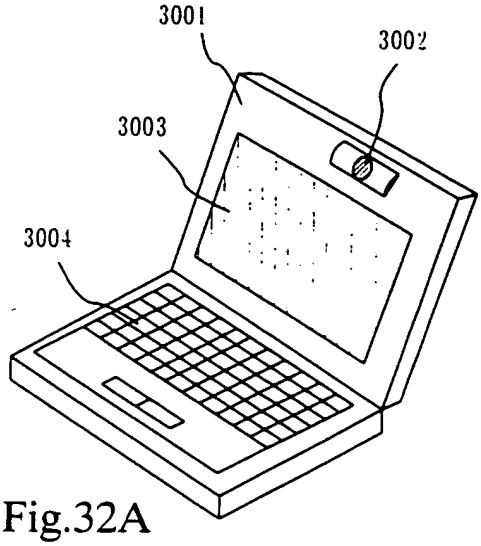


Fig.32A

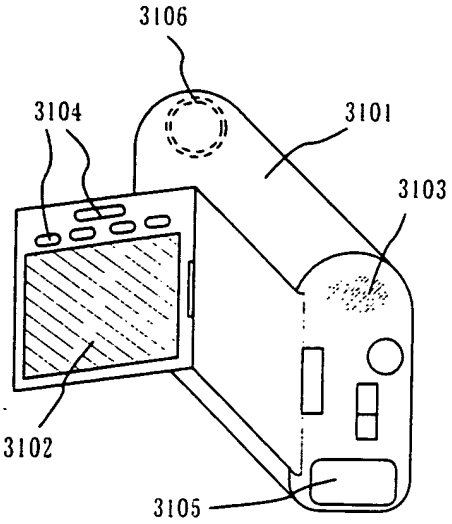


Fig.32B

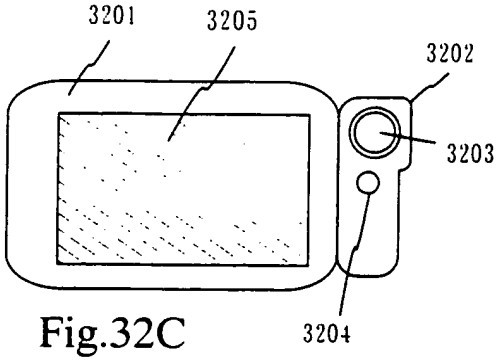


Fig.32C

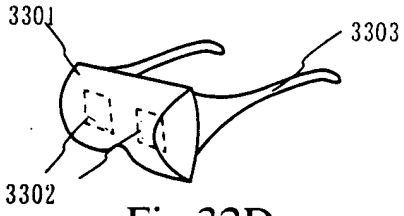


Fig.32D

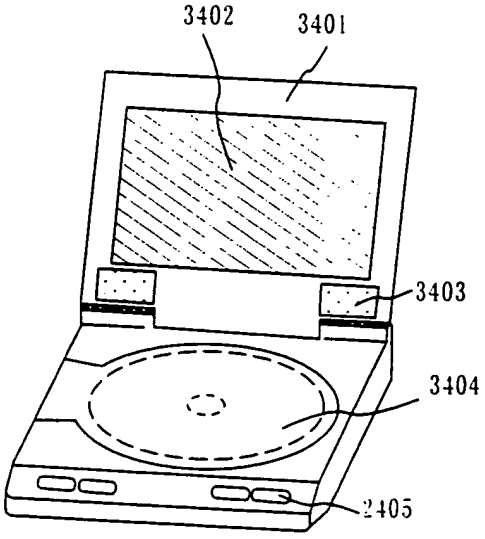


Fig.32E

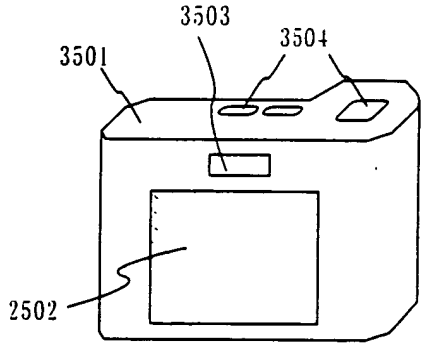


Fig.32F

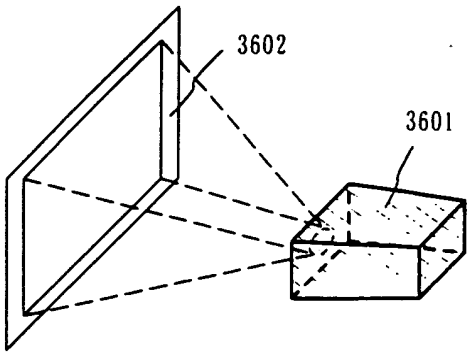


Fig.33A

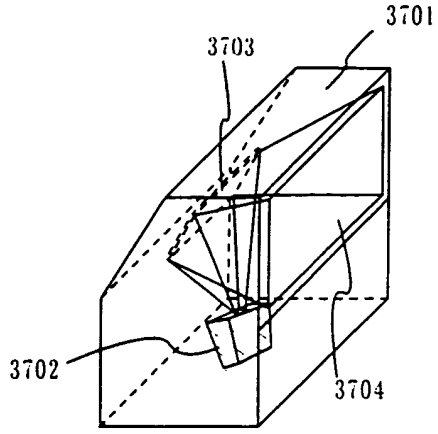


Fig.33B

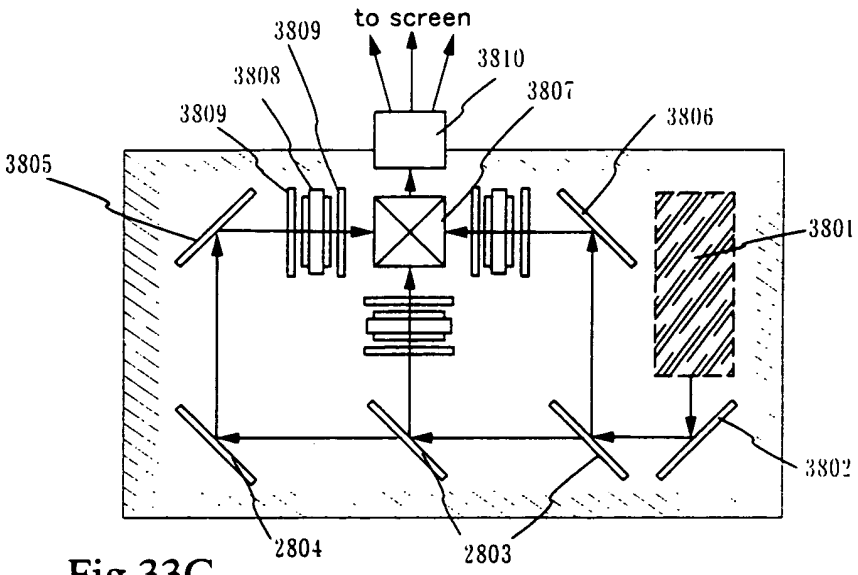


Fig.33C

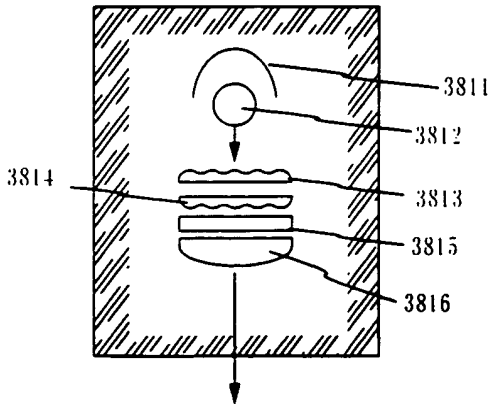


Fig.33D

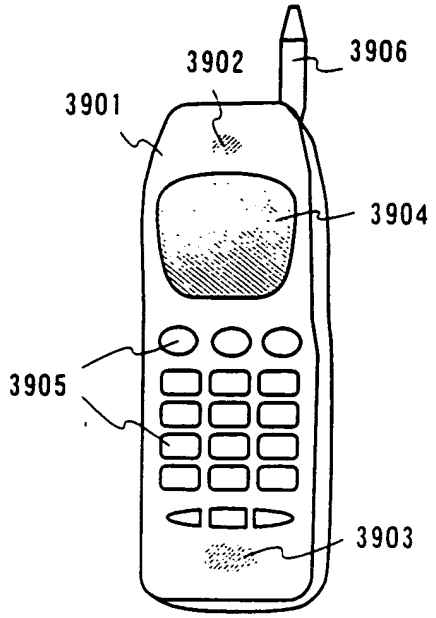


Fig.34A

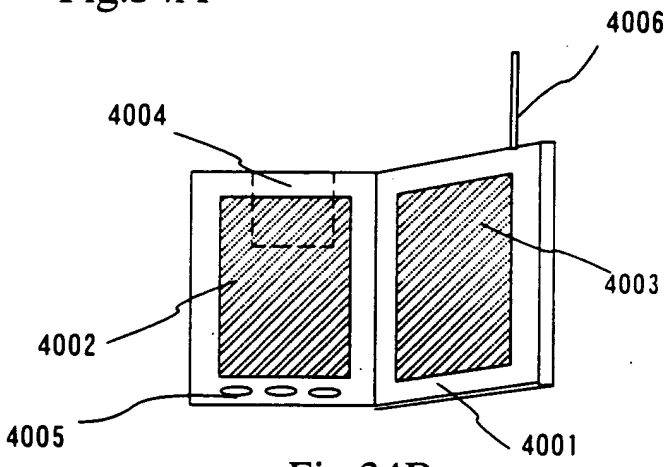


Fig.34B

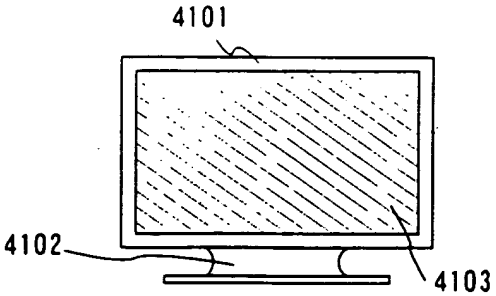


Fig.34C

Fig.35A

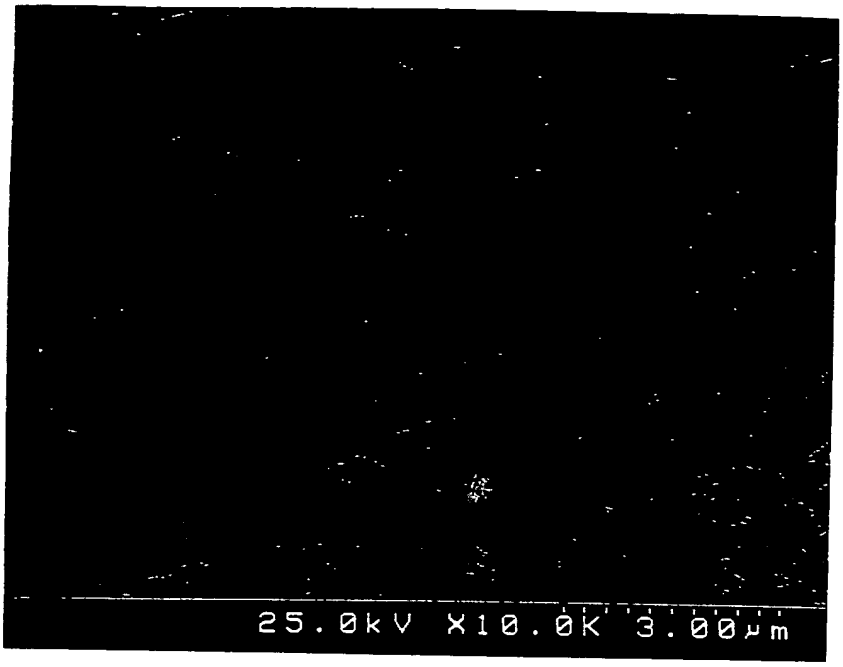


Fig.35B

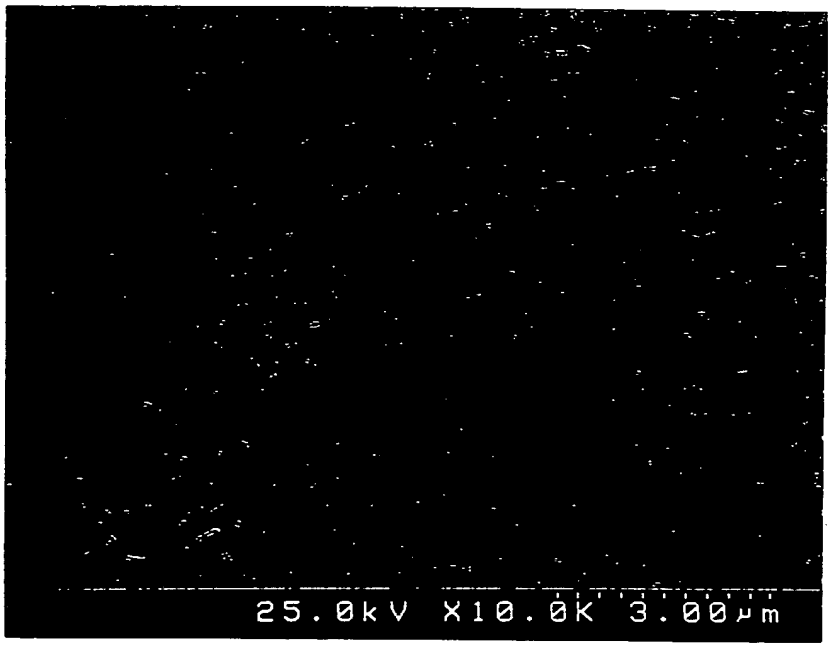


Fig.36A

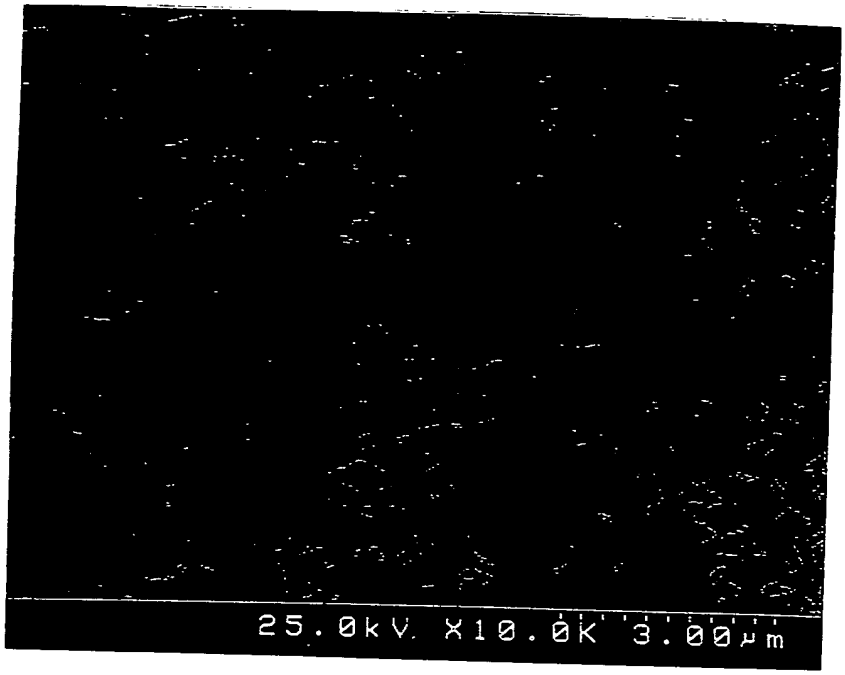


Fig.36B